



Secure AI Compact IPC for Smarter Edge

Integrated NPU | 2-screen output | Rich I/O Ports

DE5150



DE5150 is AOPEN's compact embedded solution powered by the latest 15th Gen Intel® Core™ Ultra Arrow Lake-U/H processor. Featuring DDR5 memory, integrated NPU with up to 92 TOPs, and advanced Intel® XePLG+ graphics Arc™ 130/140T, it delivers strong performance for AI-driven and multimedia applications. With rich I/O options and dual HDMI 2.1 display output, DE5150 is ideal for smart retail, smart city, self-service kiosks, and industrial automation environments.

Key features:

- Intel® Core Ultra Arrow Lack-U/H, TDP= 15/28W
- Integrated NPU for AI acceleration
- DDR 5 memory, max to 96GB
- Intel® Arc™ 130/140T GPU
- Display Output 2 x HDMI 2.1 (dual display)
- Rich I/O Ports
- AT Power Mode, auto power on without RTC battery
- Security TPM 2.0

Applications:



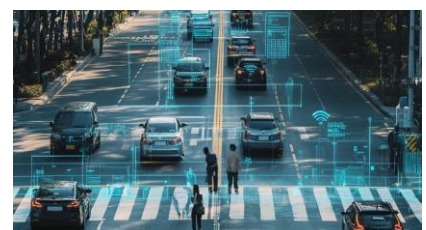
Smart Logistic

AI NPU enables real-time parcel recognition and route optimization. Multiple COM ports and dual LAN connect to scanners, sensors, and warehouse systems, streamlining logistics operations.



Industrial Automation

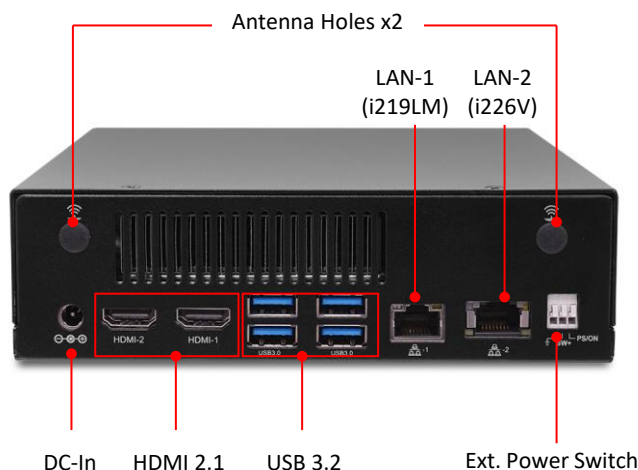
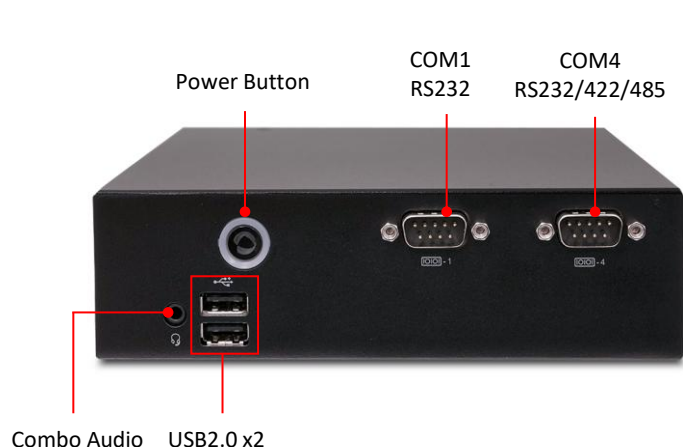
RS232/422/485 ports connect to PLCs and sensors for real-time control and data feedback, supporting 0°C to 50°C operation.



Edge AI

Intel Core Ultra with NPU and GPU supports real-time image recognition and monitoring at the edge, reducing cloud load and latency.

DE5150



Model name		DE5150
Color		Black
Dimensions	W x H x D (mm)	166 x 48 x 157 mm
	W x H x D (inch)	6.54 x 1.89 x 6.18 inch
Weight	Net Weight	1.49 kgs / 3.28 lbs
	Gross Weight	1.83 kgs / 4.02 lbs
CPU	Type	Intel® Core™ Ultra Processors (Series 2), TDP<=28W
Memory	Channels	Dual Channel
	Type	DDR5 SO-DOMM x2
	Data Rate	6400 MHz
	Max Memory	Max 96GB
Graphics		Intel® Arc™ 130T/140T GPU
Expansion slot		M.2 slot x1, 2280(key M for PCIe/SATA SSD) M.2 slot x1, 2230(key E for wifi) M.2 slot x1, 2242(key B)
Audio	Type	Realtek HD Audio ALC265CG
	Channel	Stereo
LAN	Chip	Intel® Giga LAN x1 + 2.5GLAN x1 (i219LM + i226V)
	Speed	100 / 1000 / 2500 Mbps
Storage	2.5" Bay	-
	M.2 SSD	X 1

Supports



Front Panel I/O	USB 2.0 Port		X2
	USB 3.2 Port		-
	Power Button		X1
	Others		Audio Combo Jack x1, DB9 RS232 x1, DB9 RS232/422/485 x1
Rear Panel I/O	DC Jack		X1 (5517, 12 /24V)
	HDMI Port		X2 (HDMI 2.1)
	DisplayPort		-
	USB Port		X4 (USB3.2)
	eSATA Port		-
	RJ45 LAN Jack		X2
	COM Port		-
	Audio Set	Line-Out	-
		Mic-in	-
	Antenna Holes		X2
	Kensington Lock Hole		-
	Others		Extended Power Switch x1
Watchdog Timer			1 ~ 255 sec/min
TPM			2.0
Power Supply			135W(19.5V, 6.92A) AC Adapter
Input Voltage			AC 100 ~ 240V
Warranty			2 Years
Operating Temperature			0 ~ 50°C (32 ~ 122°F)
Storage Temperature			-30 ~ 60°C (-22 ~ 140°F)

*Please note that product specifications are subject to change without notice



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